PTO/SB/05 (11-00)

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Approved for use through 10/31/2002. OMB 0651-0032

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## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. CMS

First Inventor CHURCH

Laser Sintering of Materials and a

Laser Sintering of Materials and a Thermal Barrier for Protecting...

(Only for new nonprovision	onal applications under 37 CFR 1.53(	b))	Expres	s Mail Label No.	,		
APPLICATION ELEMENTS			ADI	プログログ マス・	Assistant Cor Box Patent A		oner for Patents tion
See MPEP chapter 600 concerning utility patent application contents.				<u> </u>	Washington,		
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. X Applicant claims small entity status. See 37 CFR 1.27. 3. X Specification [Total Pages 20] - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure		(if a.   b.	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s))  10. X 37 CFR 3.73(b) Statement (when there is an assignee)				
5. Oath or Declaration [ <i>Total Pages</i> 3]  a. Newly executed (original or copy)  Copy from a prior application (37 CFR 1.63 (d))			12. [ 13. [ 14. [	Information Dis Statement (IDS Preliminary An	sclosure S)/PTO-1449 nendment ot Postcard (M	IPEP S	Copies of IDS Citations
i. DELETION OF INVENTOR(S)  Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			15.	(Should be specified Copy (if foreign prior Request and (b)(2)(B)(i). Ap or its equivaler	of Priority Do rity is claimed Certification u oplicant must	ocume ) nder 3	
6 Application Data Sheet. See 37 CFR 1.76			17.	Other:	· · · · · · · · · · · · · · · · · · ·		
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendm nt, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) Of prior application No.:  Prior application information: Examiner Group Art Unit  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
19. CORRESPONDENCE ADDRESS							
Customer Number or Bar Code Label  ([fisot]Customer No, GrAffach   bar Code   label   lie to   X   Correspondence address below							
Name	James C. Wray		-				
	1493 Chain Bridge Road						
Address	Suite 300						
City	<u> </u>		State	VA	Zip C	ode	22101
Country	US	Telep	ohone	(702)//0 730		(703)449–7397	
Name (Print/Type)	James C. Wray		Reai	stration No. (Attor	mey/Agent)	22	2,693
Signature	Towna	<u> </u>		•	Date	04	4/19/2001

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04/19/01

 PTO/SB/17 (09-00)

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FEE TRAN		Complete if Known			
I EE IIVAIN	SMILLIAL	Application Number			
for FY	2004	Filing Date	04/19/2001		
10111	<b>200</b> I	First Named Inventor	CHURCH		
Patent fees are subject to	o annual revision.	Examiner Name			
· ·		Group Art Unit			
TOTAL AMOUNT OF PAYMENT	(\$) 593.00	Attorney Docket No.	CMS		

METHOD OF PAYMENT	FEE CALCULATION (continued)					
1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:  Deposit Account	3. ADDITIONAL FEES Large Entity Small Entity Fee Fee Fee Fee Code (\$) Fee Description Fee Paid					
Number Deposit	105 130 205 65 Surcharge - late filing fee or oath					
Account Name	127 50 227 25 Surcharge - late provisional filing fee or cover sheet					
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	139 130 139 130 Non-English specification					
Applicant claims small entity status.	147 2,520 147 2,520 For filing a request for ex parte reexamination					
See 37 CFR 1.27  2. X Payment Enclosed:	112 920° 112 920° Requesting publication of SIR prior to Examiner action					
X Check Credit card Money Other	113 1,840° 113 1,840° Requesting publication of SIR after Examiner action					
FEE CALCULATION	115 110 215 55 Extension for reply within first month					
1. BASIC FILING FEE	116 390 216 195 Extension for reply within second month					
Large Entity Small Entity Fee Fee Fee Fee Description	117 890 217 445 Extension for reply within third month					
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	118 1,390 218 695 Extension for reply within fourth month					
101 710 201 355 Utility filing fee 355	128 1,890 228 945 Extension for reply within fifth month					
106 320 208 160 Design filing fee	119 310 219 155 Notice of Appeal					
107 490 207 245 Plant filing fee	120 310 220 155 Filing a brief in support of an appeal					
108 710 208 355 Reissue filing fee	121 270 221 135 Request for oral hearing					
114 150 214 75 Provisional filing fee	138 1,510 138 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 355.00	140 110 240 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES	141 1,240 241 620 Petition to revive - unintentional					
Fee from _	142 1,240 242 620 Utility issue fee (or reissue) 143 440 243 220 Design issue fee					
Extra Claims below Fee Paid  Total Claims 42 -20** = 22 x \$9 = 198	143 440 243 220 Design issue fee 144 600 244 300 Plant issue fee					
Independent 3** = V	122 130 122 130 Petitions to the Commissioner					
Claims	123 50 123 50 Petitions related to provisional applications					
	126 240 126 240 Submission of Information Disclosure Stmt					
Large Entity Small Entity	To a second of the second of t					
Fee Fee Fee Fee Description Code (\$) Code (\$)	581 40 581 40 Recording each patent assignment per property (times number of properties)					
103 18 203 9 Claims in excess of 20 102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))					
102 80 202 40 Independent claims in excess of 3 104 270 204 135 Multiple dependent claim, if not paid	149 710 249 355 For each additional invention to be examined (37 CFR § 1.129(b))					
109 80 209 40 ** Reissue independent claims over original patent	179 710 279 355 Request for Continued Examination (RCE)					
110 18 210 9 ** Reissue claims in excess of 20 169 900 169 900 Request for expedited examination of a design application						
SUBTOTAL (2) (\$) 198.00	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00					
SUBMITTED BY						
Name (Print/Type) James C. Wray	Registration No. 22,693 Telephone (703) 442–4800					
Signeture AWNA	(Attorney/Agent) 22,000 Pate 04/19/2001					

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#TÖ/SB/96 (08-00)

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	IDER 37 CFR 3.73(b)
Kenneth H. Church, I Applicant/Patent Owner: and Robert L. Parkh	Robert M. Taylor, Lowell R. Matthews
Application No./Patent No.:	5th days Days 0//10/2001
Entitled: Laser Sintering of Materials an	
Substrate CMS Technetronics Inc. , an Okl	
	Anoma corporation,  Assignee, e.g., corporation, partnership, university, government agency, etc.)
`,,	ec.)
states that it is:	09837765
1. $oxed{oxedxim}$ the assignee of the entire right, title, and intere	est; or
2. an assignee of less than the entire right, title a The extent (by, percentage) of its ownership in	nd interest.
in the patent application/patent identified above by vi	rtue of either:
A. [X] An assignment from the inventor(s) of the pate was recorded in the United States Patent and which a copy thereof is attached.	ent application/patent identified above. The assignment Trademark Office at Reel, Frame, or for
OR	REC OIPE
B. [ ] A chain of title from the inventor(s), of the pate assignee as shown below:	ent application/patent identified above, to the current VE
1. From:	_To:
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[ ] Additional documents in the chain of title	are listed on a supplemental sheet.
[ ] Copies of assignments or other documents in the c [NOTE: A separate copy (i.e., the original assignments be submitted to Assignment Division in accordance recorded in the records of the USPTO. See MPEP	ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is supplied below) is auth	orized to act on behalf of the assignee.
J_IRAPROI	Kenneth H. Church
Date	Typed or printed name
	I In Alle
	Signature President
	Title

## APPLICATION

FOR

## UNITED STATES LETTERS PATENT

FOR

LASER SINTERING OF MATERIALS AND A THERMAL BARRIER FOR PROTECTING A SUBSTRATE

BY

KENNETH H. CHURCH ROBERT M. TAYLOR LOWELL R. MATTHEWS and ROBERT L. PARKHILL

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